

Abstract of the Disclosure

A method for determining clinical and/or chemical parameters (S1) in a medium (10), utilizing a laser unit, for emitting coherent light waves (6) and a phototransistor unit, for receiving light waves (8). At least some of the emitted light waves (6) are transferred to the medium (10) and the phototransistor unit waves (8) measures at least some of the light waves (8) that are reflected in the medium (10), the parameters (S1) being determined as a result of the characteristics of the emitted and received light waves (6; 8). The fact that light waves (6) are emitted into the medium (10) by a laser unit (2) and that the light waves (8) that are reflected in the medium (10) are measured by a phototransistor (4) enables the parameters (S1) that occur in the target area of the laser beam to be determined advantageously in a processing and control unit.